223

Arch
NTL
TH
7486
.H22
1903

irect
diators

H. B. SMITH CO.,

Westfield, Mass.

SALESROOMS:

Centre St., New York, N. Y.
Arch St., Philadelphia, Pa.

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H. B. Smith Co.

⌐Direct Radiators⌐

1903

Arch
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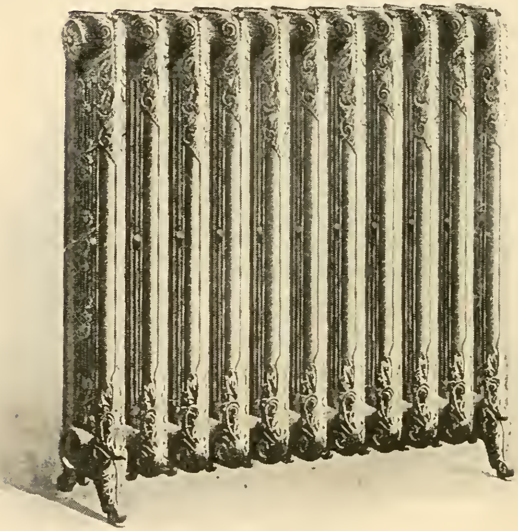
.H22
1903

20548039

Imperial Union

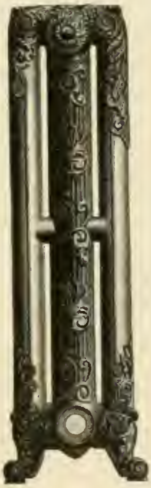


Steam or Water

List of Sizes, page 10

Imperial Union

UNIV. OF MD COLLEGE PARK
3 1430 03115993 4

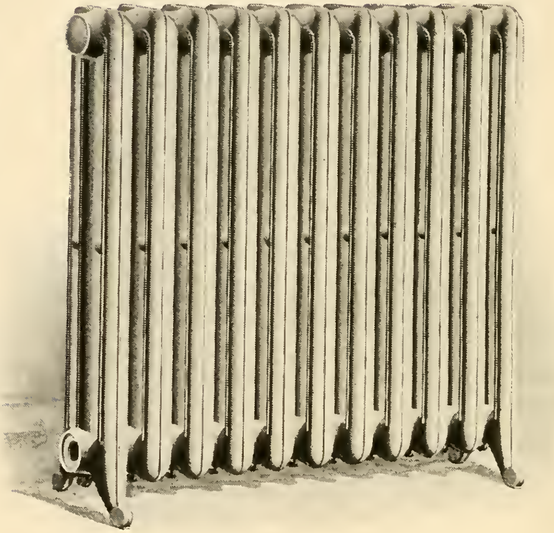


UNIV. OF MD COLLEGE PARK
3 1430 03115993 4

Dimensions of Section

Total width at floor	11	inches
Width of section	9	"
Length per section	3¼	"

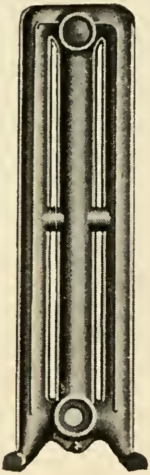
Princess Union



Steam or Water

List of Sizes, page 10

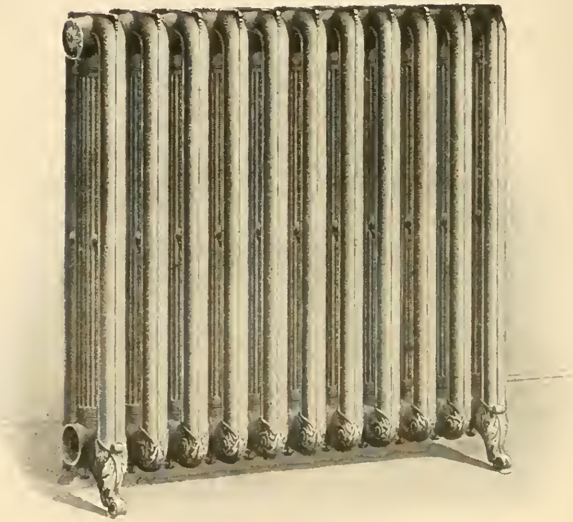
Princess Union



Dimensions of Section

Total width at floor	11	inches
Width of section	9	"
Length per section	3¼	"

Champion Union

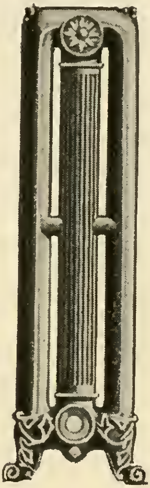


Steam or Water

List of Sizes, page 10

Not carried in stock

Champion Union



Dimensions of Section

Total width at floor	11 inches
Width of section	9 "
Length per section	3¼ "

Not carried in stock

Imperial, Princess and Champion Union

Sizes	Total Length	RADIATING SURFACE				
		45 Inches High	37 Inches High	31 Inches High	25 Inches High	19 Inches High
3 sec.	0′- 9¾″	24	19½′	16½′	13½′	10½′
4 "	1′- 1″	32	26′	22′	18′	14′
5 "	1′- 4¼″	40	32½′	27½′	22½′	17½′
6 "	1′- 7½″	48	39′	33′	27′	21′
7 "	1′-10¾″	56	45½′	38½′	31½′	24½′
8 "	2′- 2″	64	52′	44′	36′	28′
9 "	2′- 5¼″	72	58½′	49½′	40½′	31½′
10 "	2′- 8½″	80	65′	55′	45′	35′
11 "	2′-11¾″	88	71½′	60½′	49½′	38½′
12 "	3′- 3″	96	78′	66′	54′	42′
13 "	3′- 6¼″	104	84½′	71½′	58½′	45½′
14 "	3′- 9½″	112	91′	77′	63′	49′
15 "	4′- ¾″	120	97½′	82½′	67½′	52½′
16 "	4′- 4″	128	104′	88′	72′	56′
17 "	4′- 7¼″	136	110½′	93½′	76½′	59½′
18 "	4′-10½″	144	117′	99′	81′	63′
19 "	5′- 1¾″	152	123½′	104½′	85½′	66½′
20 "	5′- 5″	160	130′	110′	90′	70′
21 "	5′- 8¼″	168	136½′	115½′	94½′	73½′
22 "	5′-11½″	176	143′	121′	99′	77′
23 "	6′- 2¾″	184	149½′	126½′	103½′	80½′
24 "	6′- 6″	192	156′	132′	108′	84′
25 "	6′- 9¼″	200	162½′	137½′	112½′	87½′
26 "	7′- ½″	208	169′	143′	117′	91′
27 "	7′- 3¾″	216	175½′	148½′	121½′	94½′
28 "	7′- 7″	224	182′	154′	126′	98′
29 "	7′-10¼″	232	188½′	159½′	130½′	101½′
30 "	8′- 1½″	240	195′	165′	135′	105′

List of Sizes

Imperial, Princess and Champion Union

Regular Tapping

Steam

RADIATORS WILL BE TAPPED FOR TWO-PIPE WORK UNLESS OTHERWISE SPECIFIED.

Two-Pipe Work

Radiators of 50 sq. ft. and smaller.....	1″×¾″ RH.
Radiators larger than 50 sq. ft..........	1¼″×1″ RH.
Air Valves..........................	⅛″ RH.

One-Pipe Work

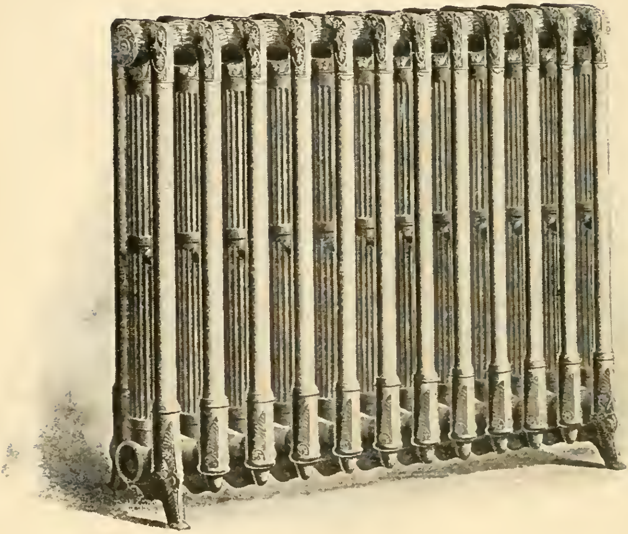
Radiators of 30 sq. ft. and smaller.....	1″ RH.
Radiators larger than 30 sq. ft. and smaller than 60 sq. ft............	1¼″ RH.
Radiators larger than 60 sq. ft..........	1½″ RH.
Air Valves..........................	⅛″ RH.

Water

Radiators of 50 sq. ft. and smaller...	1″×1″ RH.
Radiators larger than 50 sq. ft.......	1¼″×1¼″ RH.
Air Valves..........................	⅛″ at top RH.

If radiators are required tapped top and bottom, same end, or top and bottom, opposite ends, so specify on order. (See pages 83 and 84.)

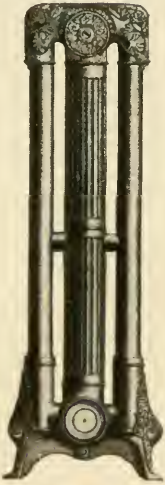
Royal Union



Steam and Water

List of Sizes, page 16

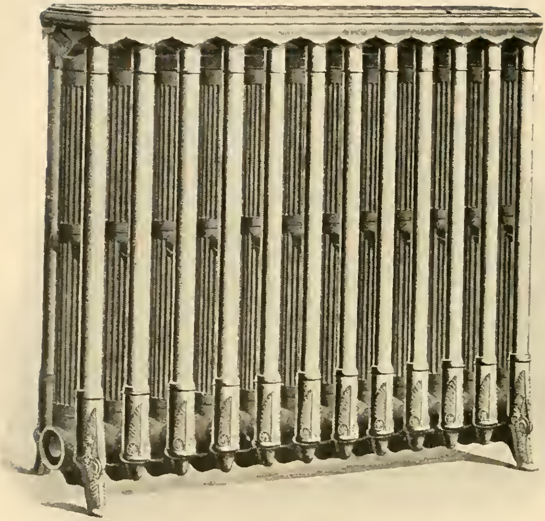
Royal Union



Dimensions of Section

Total width at floor	11	inches
Width of section	8	"
Length per Section	3	"

Union



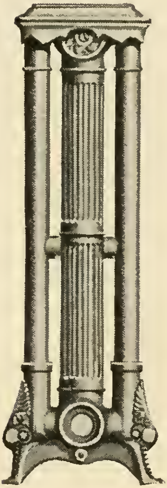
Steam or Water

List of Sizes, page 16

Not carried in stock

Note page 82

Union



Dimensions of Section

Total width at floor	11	inches
Width of section	8	"
Length per section	3	"

Not carried in stock

Royal Union and Union

Sizes	Total Length	Radiating Surface					
		37 Inches High	33 Inches High	29 Inches High	25 Inches High	21 Inches High	17 Inches High
3 sec.	0′ 9″	13½′	12′	10½′	9′	7½′	6′
4 "	1′ 0″	18′	16′	14′	12′	10′	8′
5 "	1′ 3″	22½′	20′	17½′	15′	12½′	10′
6 "	1′ 6″	27′	24′	21′	18′	15′	12′
7 "	1′ 9″	31½′	28′	24½′	21′	17½′	14′
8 "	2′ 0″	36′	32′	28′	24′	20′	16′
9 "	2′ 3″	40½′	36′	31½′	27′	22½′	18′
10 "	2′ 6″	45′	40′	35′	30′	25′	20′
11 "	2′ 9″	49½′	44′	38½′	33′	27½′	22′
12 "	3′ 0″	54′	48′	42′	36′	30′	24′
13 "	3′ 3″	58½′	52′	45½′	39′	32½′	26′
14 "	3′ 6″	63′	56′	49′	42′	35′	28′
15 "	3′ 9″	67½′	60′	52½′	45′	37½′	30′
16 "	4′ 0″	72′	64′	56′	48′	40′	32′
17 "	4′ 3″	76½′	68′	59½′	51′	42½′	34′
18 "	4′ 6″	81′	72′	63′	54′	45′	36′
19 "	4′ 9″	85½′	76′	66½′	57′	47½′	38′
20 "	5′ 0″	90′	80′	70′	60′	50′	40′
21 "	5′ 3″	94½′	84′	73½′	63′	52½′	42′
22 "	5′ 6″	99′	88′	77′	66′	55′	44′
23 "	5′ 9″	103½′	92′	80½′	69′	57½′	46′
24 "	6′ 0″	108′	96′	84′	72′	60′	48′
25 "	6′ 3″	112½′	100′	87½′	75′	62½′	50′
26 "	6′ 6″	117′	104′	91′	78′	65′	52′
27 "	6′ 9″	121½′	108′	94½′	81′	67½′	54′
28 "	7′ 0″	126′	112′	98′	84′	70′	56′
29 "	7′ 3″	130½′	116′	101½′	87′	72½′	58′
30 "	7′ 6″	135′	120′	105′	90′	75′	60′

List of Sizes

Royal Union and Union

Regular Tapping

Steam

RADIATORS WILL BE TAPPED FOR TWO-PIPE WORK UNLESS OTHERWISE SPECIFIED.

Two-Pipe Work

Radiators of 50 sq. ft. and smaller	1″×¾″ RH.
Radiators larger than 50 sq. ft.	1¼″×1″ RH.
Air Valves	⅛″ RH.

One-Pipe Work

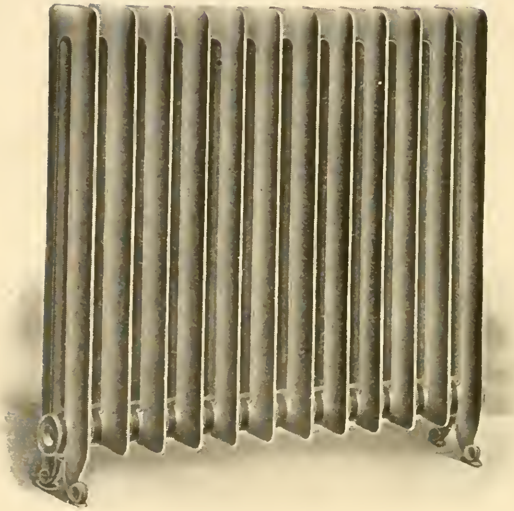
Radiators of 30 sq. ft. and smaller	1″ RH.
Radiators larger than 30 sq. ft. and smaller than 60 sq. ft.	1¼″ RH.
Radiators larger than 60 sq. ft.	1½″ RH.
Air Valves	⅛″ RH.

Water

Radiators of 50 sq. ft. and smaller	1″×1″ RH.
Radiators larger than 50 sq. ft.	1¼″×1¼″ RH.
Air Valves	⅛″ at top RH.

If radiators are required tapped top and bottom, same end, or top and bottom, opposite ends, so specify on order. (See pages 83 and 84.)

Scepter

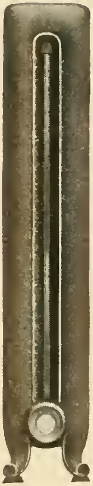


Steam Only

List of Sizes, page 20

Should be ready for delivery about August 1, 1903

Scepter



Dimensions of Section

Total width at floor	7	inches
Width of section	7	"
Length per section	2⅜	"

Should be ready for delivery about August 1, 1903

Scepter

List of Sizes

		RADIATING SURFACE.				
Sizes	Total Length	44 Inches High	38 Inches High	30 Inches High	24 Inches High	18 Inches High
2 Sections	0′ 4¾″	9½′	8′	6′	4⅔′	3⅓′
3 "	0′ 7⅛″	14¼′	12′	9′	7′	5′
4 "	0′ 9½″	19′	16′	12′	9⅓′	6⅔′
5 "	0′ 11⅞″	23¾′	20′	15′	11⅔′	8⅓′
6 "	1′ 2¼″	28½′	24′	18′	14′	10′
7 "	1′ 4⅝″	33¼′	28′	21′	16⅓′	11⅔′
8 "	1′ 7″	38′	32′	24′	18⅔′	13⅓′
9 "	1′ 9⅜″	42¾′	36′	27′	21′	15′
10 "	1′ 11¾″	47½′	40′	30′	23⅓′	16⅔′
11 "	2′ 2⅛″	52¼′	44′	33′	25⅔′	18⅓′
12 "	2′ 4½″	57′	48′	36′	28′	20′
13 "	2′ 6⅞″	61¾′	52′	39′	30⅓′	21⅔′
14 "	2′ 9¼″	66½′	56′	42′	32⅔′	23⅓′
15 "	2′ 11⅝″	71¼′	60′	45′	35′	25′
16 "	3′ 2″	76′	64′	48′	37⅓′	26⅔′
17 "	3′ 4⅜″	80¾′	68′	51′	39⅔′	28⅓′
18 "	3′ 6¾″	85½′	72′	54′	42′	30′
19 "	3′ 9⅛″	90¼′	76′	57′	44⅓′	31⅔′
20 "	3′ 11½″	95′	80′	60′	46⅔′	33⅓′
21 "	4′ 1⅞″	99¾′	84′	63′	49′	35′
22 "	4′ 4¼″	104½′	88′	66′	51⅓′	36⅔′
23 "	4′ 6⅝″	109¼′	92′	69′	53⅔′	38⅓′
24 "	4′ 9″	114′	96′	72′	56′	40′
25 "	4′ 11⅜″	118¾′	100′	75′	58⅓′	41⅔′
26 "	5′ 1¾″	123½′	104′	78′	60⅔′	43⅓′
27 "	5′ 4⅛″	128¼′	108′	81′	63′	45′
28 "	5′ 6½″	133′	112′	84′	65⅓′	46⅔′
29 "	5′ 8⅞″	137¾′	116′	87′	67⅔′	48⅓′
30 "	5′ 11¼″	142½′	120′	90′	70′	50′

Steam Only

Should be ready for delivery about August 1, 1903

Scepter

Regular Tapping

Steam

Radiators will be Tapped for Two-Pipe Work Unless Otherwise Specified.

Two-Pipe Work

Radiators of 50 sq. ft. and smaller	1″×¾″ RH.
Radiators larger than 50 sq. ft	1¼″×1″ RH.
Air Valves	⅛″ RH.

One-Pipe Work

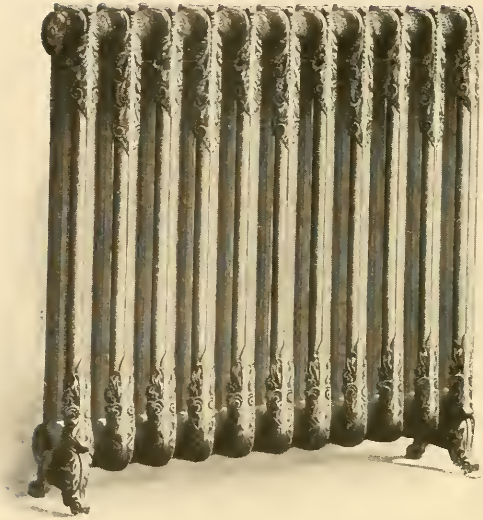
Radiators of 30 sq. ft. and smaller	1″ RH.
Radiators larger than 30 sq. ft. and not larger than 60 sq. ft	1¼″ RH.
Radiators larger than 60 sq. ft	1½″ RH.
Air Valves	⅛″ RH.

Dimensions of Section

Width of section	7 inches.
Length per section	2⅜ "

See page 83

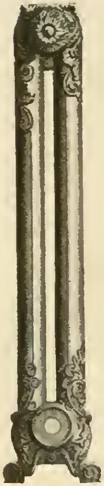
Coronet



Steam or Water

List of Sizes, page 28

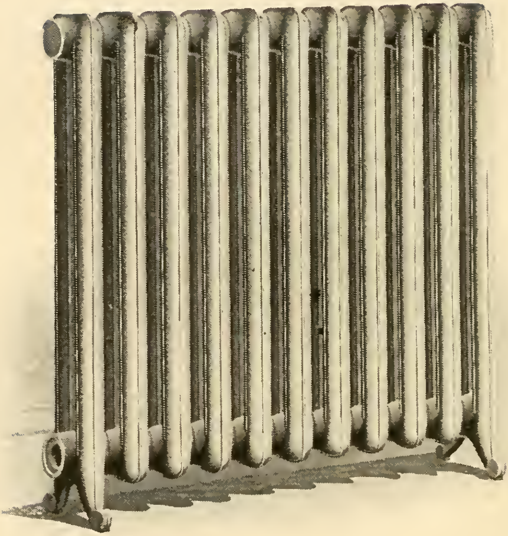
Coronet



Dimensions of Section

Total width at floor	7¼	inches
Width of section	5¼	"
Length per section	3	"

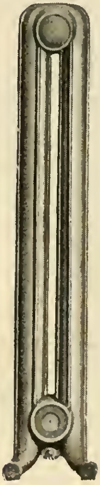
Diadem



Steam or Water

List of sizes, page 28

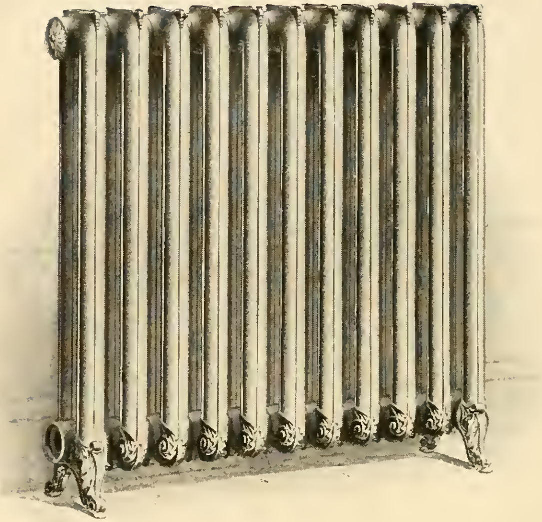
Diadem



Dimensions of Section

Total width at floor	7¼	inches
Width of section	5¼	“
Length per section	3	“

Crown

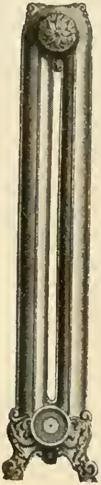


Steam or Water

List of Sizes, page 28

Not carried in stock

Crown



Dimensions of Section

Total width at floor	7¼	inches
Width of section	5¼	‘‘
Length per section	3	‘‘

Not carried in stock

Coronet, Diadem and *Crown

Sizes	Total Length	RADIATING SURFACE				
		* 45 Inches High	37 Inches High	31 Inches High	25 Inches High	19 Inches High
2 sec.	0′ 6″	9′	7′	6′	5′	4′
3 "	0′ 9″	13½′	10½′	9′	7½′	6′
4 "	1′ 0″	18′	14′	12′	10′	8′
5 "	1′ 3″	22½′	17½′	15′	12½′	10′
6 "	1′ 6″	27′	21′	18′	15′	12′
7 "	1′ 9″	31½′	24½′	21′	17½′	14′
8 "	2′ 0″	36′	28′	24′	20′	16′
9 "	2′ 3″	40½′	31½′	27′	22½′	18′
10 "	2′ 6″	45′	35′	30′	25′	20′
11 "	2′ 9″	49½′	38½′	33′	27½′	22′
12 "	3′ 0″	54′	42′	36′	30′	24′
13 "	3′ 3″	58½′	45½′	39′	32½′	26′
14 "	3′ 6″	63′	49′	42′	35′	28′
15 "	3′ 9″	67½′	52½′	45′	37½′	30′
16 "	4′ 0″	72′	56′	48′	40′	32′
17 "	4′ 3″	76½′	59½′	51′	42½′	34′
18 "	4′ 6″	81′	63′	54′	45′	36′
19 "	4′ 9″	85½′	66½′	57′	47½′	38′
20 "	5′ 0″	90′	70′	60′	50′	40′
21 "	5′ 3″	94½′	73½′	63′	52½′	42′
22 "	5′ 6″	99′	77′	66′	55′	44′
23 "	5′ 9″	103½′	80½′	69′	57½′	46′
24 "	6′ 0″	108′	84′	72′	60′	48′
25 "	6′ 3″	112½′	87½′	75′	62½′	50′
26 "	6′ 6″	117′	91′	78′	65′	52′
27 "	6′ 9″	121½′	94½′	81′	67½′	54′
28 "	7′ 0″	126′	98′	84′	70′	56′
29 "	7′ 3″	130½′	101½′	87′	72½′	58′
30 "	7′ 6″	135′	105′	90′	75′	60′

* Crown not made 45″ high.

List of Sizes

Coronet, Diadem and Crown

Regular Tapping

Steam

RADIATORS WILL BE TAPPED FOR TWO-PIPE WORK UNLESS OTHERWISE SPECIFIED.

Two-Pipe Work

Radiators of 50 sq. ft. and smaller	1″×¾″ RH.
Radiators larger than 50 sq. ft.	1¼″×1″ RH.
Air Valves	⅛″ RH.

One-Pipe Work

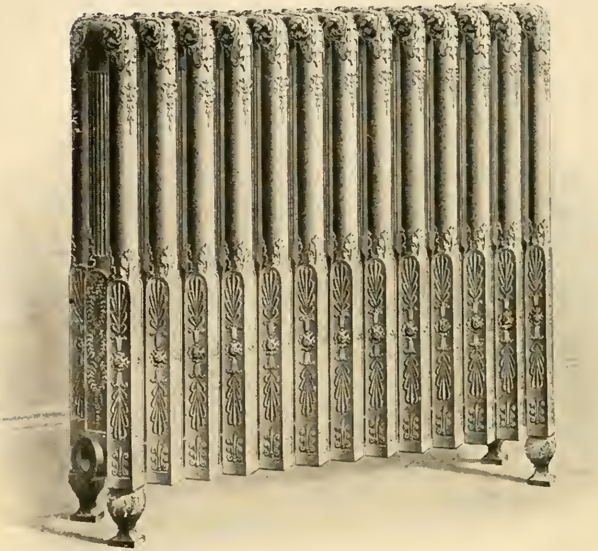
Radiators of 30 sq. ft. and smaller	1″ RH.
Radiators larger than 30 sq. ft. and smaller than 60 sq. ft.	1¼″ RH.
Radiators larger than 60 sq. ft	1½″ RH.
Air Valves	⅛″ RH.

Water

Radiators of 50 sq. ft. and smaller	1″×1″ RH.
Radiators larger than 50 sq. ft.	1¼″×1¼″ RH.
Air Valves	⅛″ at top RH.

If radiators are required tapped top and bottom, same end, or top and bottom, opposite ends, so specify on order. (See pages 83 and 84.)

Sovereign Union

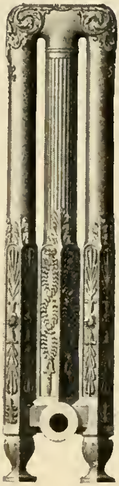


Steam and Water

List of Sizes, page 32

Sovereign Union WATER Radiators not carried in stock.

Sovereign Union



Dimensions of Section

Total width at floor	$8\frac{3}{4}$	inches
Width of section	$8\frac{3}{4}$	"
Length per section	$2\frac{11}{16}$	"

Sovereign Union

Sizes	Total Length	Radiating Surface		
		37 Inches High	31 Inches High	25 Inches High
3 Sections	0′ 8 1-16″	18′	15′	12′
4 "	0′ 10¾″	24′	20′	16′
5 "	1′ 1 7-16″	30′	25′	20′
6 "	1′ 4⅛″	36′	30′	24′
7 "	1′ 6 13-16″	42′	35′	28′
8 "	1′ 9½″	48′	40′	32′
9 "	2′ 0 3-16″	54′	45′	36′
10 "	2′ 2⅞″	60′	50′	40′
11 "	2′ 5 9-16″	66′	55′	44′
12 "	2′ 8¼″	72′	60′	48′
13 "	2′ 10 15-16″	78′	65′	52′
14 "	3′ 1⅝″	84′	70′	56′
15 "	3′ 4 5-16″	90′	75′	60′
16 "	3′ 7″	96′	80′	64′
17 "	3′ 9 11-16″	102′	85′	68′
18 "	4′ 0⅜″	108′	90′	72′
19 "	4′ 3 1-16″	114′	95′	76′
20 "	4′ 5¾″	120′	100′	80′
21 "	4′ 8 7-16″	126′	105′	84′
22 "	4′ 11⅛″	132′	110′	88′
23 "	5′ 1 13-16″	138′	115′	92′
24 "	5′ 4½″	144′	120′	96′
25 "	5′ 7 3-16″	150′	125′	100′
26 "	5′ 9⅞″	156′	130′	104′
27 "	6′ 0 9-16″	162′	135′	108′
28 "	6′ 3¼″	168′	140′	112′
29 "	6′ 5 15-16″	174′	145′	116′
30 "	6′ 8⅝″	180′	150′	120′

List of Sizes

Sovereign Union

Regular Tapping

Steam

Radiators will be Tapped for Two-Pipe Work Unless Otherwise Specified.

Two-Pipe Work

Radiators of 50 sq. ft. and smaller	1″×¾″ RH.
Radiators larger than 50 sq. ft.	1¼″×1″ RH.
Air Valves	⅛″ RH.

One-Pipe Work

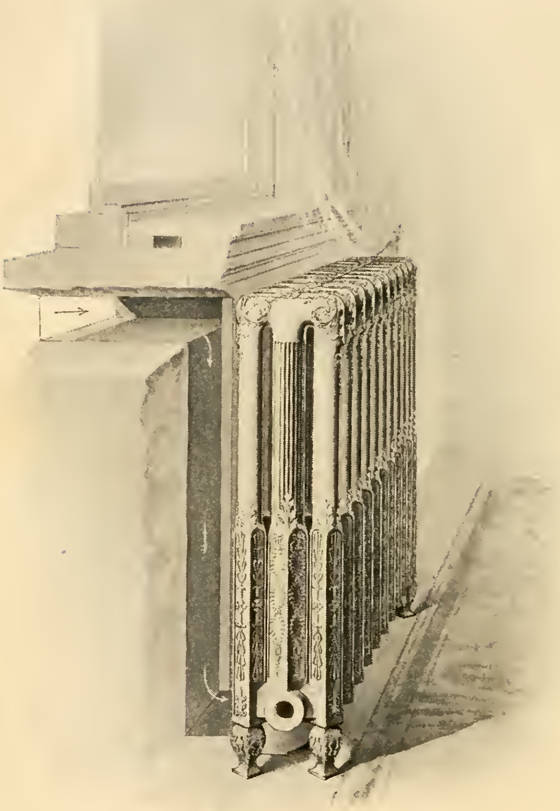
Radiators of 30 sq. ft. and smaller	1″ RH.
Radiators larger than 30 sq. ft. and smaller than 60 sq. ft.	1¼″ RH.
Radiators larger than 60 sq. ft.	1½″ RH.
Air Valves	⅛″ RH.

Water

Radiators of 50 sq. ft. and smaller	1″×1″ RH.
Radiators larger than 50 sq. ft.	1¼″×1¼″ RH.
Air Valves	⅛″ at top RH.

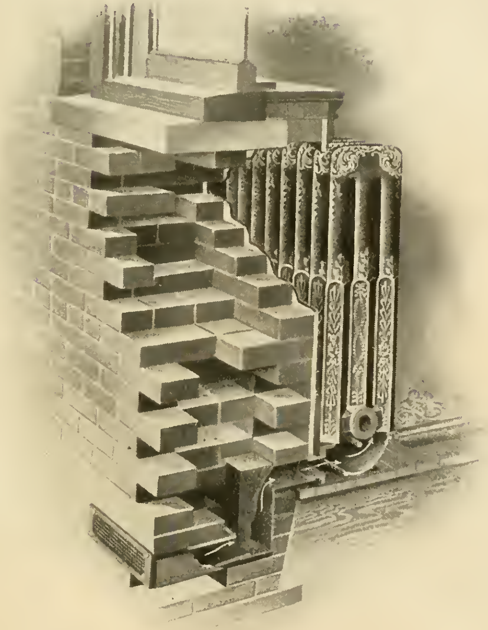
If radiators are required tapped top and bottom, same end, or top and bottom, opposite ends, so specify on order. (See pages 83 and 84.)

Sovereign Union



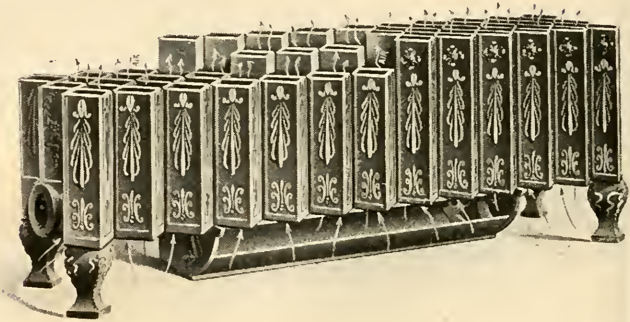
Direct — Indirect

Sovereign Union

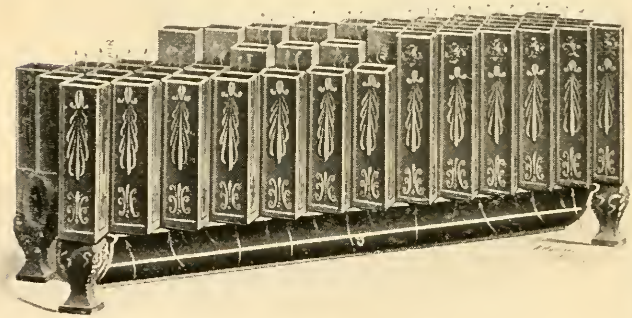


Direct — Indirect

Detached Bases and Dampers



13 section Radiator — 7 section base ($18\frac{5}{8}''$ long)
Handle for operating at end of base



Base full length of Radiator
13 section Radiator — 11 section base ($29\frac{1}{2}''$ long)
Handle for operating at center of damper
Unless Otherwise Specified Bases will be Shipped
with Air Inlet in Back.

Detached Bases and Dampers

Special Notice

DETACHED BASES and DAMPERS are to be used with Sovereign Union Radiators only

Radiators 21 sections and longer have center leg.

When center leg is used, Base with Damper cannot extend the length of Radiator.

When Radiator longer than 20 section is required, to have Base with Damper under center of Radiator, specify on order that Radiator is to have two (2) center legs, giving the distance (in sections) between center legs.

When Base extends full distance between legs the Damper is operated by Handle (ring) placed at center of Damper.

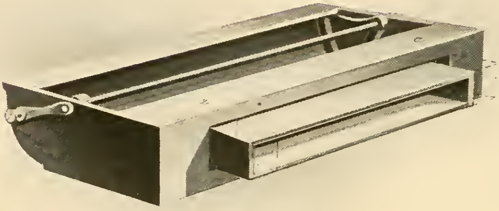
When Base does not extend full length between legs the Damper is operated by Handle at end of Base.

Unless otherwise specified, Bases will be shipped with air inlet in back and Handle on end.

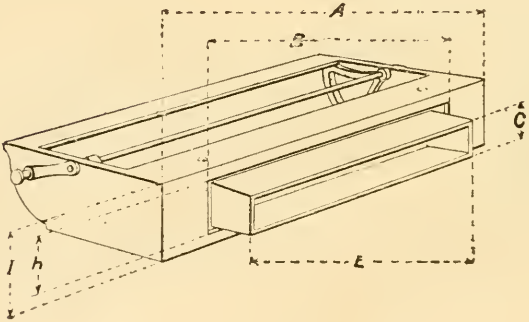
Specify on order (in Sections "D") length of Base. (See page 39.)

Each Radiator Section is $2\frac{1}{16}$ inches in length.

Detached Bases and Dampers



Rear of Base. Air Inlet in Back
Damper Open to Admit Outside Air



See page 39

Not carried in stock

Detached Bases and Dampers

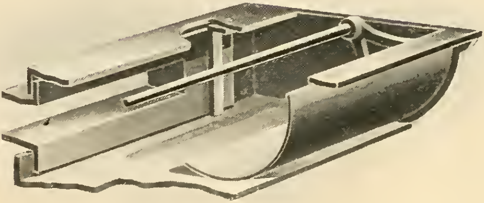
List of Sizes

A Length of Base.
B Length of back outlet to receive thimble.
C Height of Air Inlet or thimble (2 inches).
D Length of Base in number of Sovereign Union sections.
E Length of Air Inlet or thimble.
H Height of back outlet to receive thimble (2½ inches).
I Height of Base (3⅞ inches).

D	A	B	E
4 Sections	9½″	7½″	6⅞″
5 "	13½″	8 9-16″	6⅞″
6 "	16″	10½″	9 13-32″
7 "	18⅝″	13⅜″	11⅞″
8 "	21 3-16″	15 11-16″	14 5-32″
9 "	24 3-16″	18 13-16″	16 15-16″
10 "	26 15-16″	21 1-16″	19 27-32″
11 "	29½″	23⅝″	21 29-32″
12 "	31⅞″	26 5-16″	25″
13 "	34⅞″	28 7-16″	27 9-32″
14 "	37¼″	31 13-16″	30″
15 "	40″	34 11-16″	32 21-32″
16 "	43 1-16″	37⅜″	35″
17 "	45⅜″	39 11-16″	37 11-32″
18 "	48⅜″	36 15-16″	35⅜″

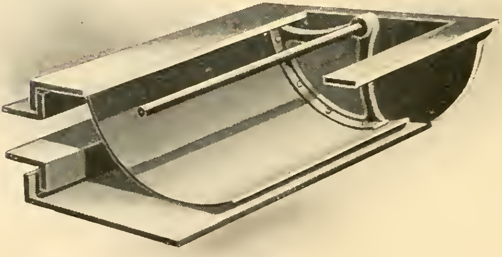
Not carried in stock

Detached Bases and Dampers



Damper Open to Admit Outside Air

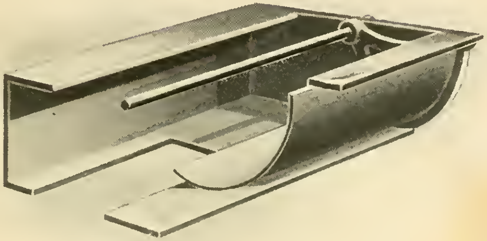
Air Inlet Through Back



Damper Closed to Admit Air from Room

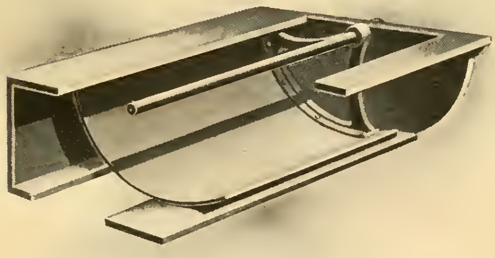
Unless Otherwise Specified Bases will be shipped with Air Inlet in Back.

Detached Bases and Dampers



Damper Open to Admit Outside Air

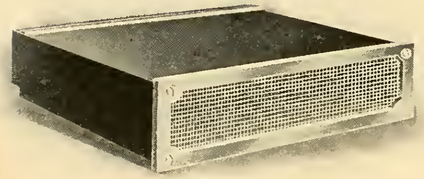
Air Inlet Through Floor



Damper Closed to Admit Air from Room

Unless Otherwise Specified Bases will be shipped with Air Inlet in Back.

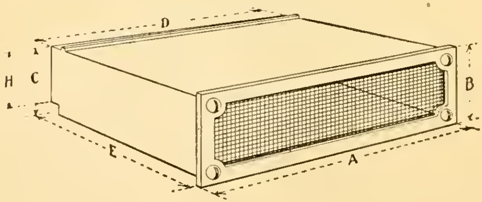
Wall Boxes



See page 35

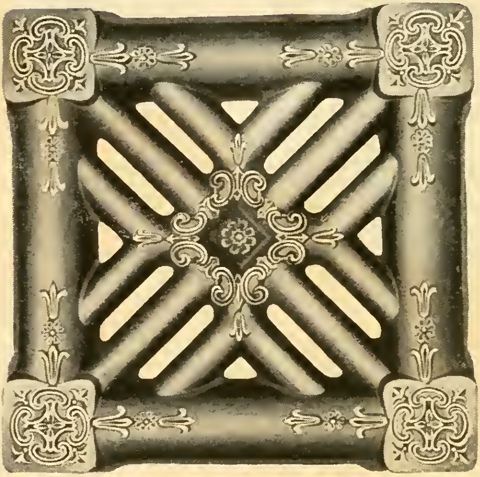
Dimensions

Sizes	A	B	C	D	E	H
2″ x 12″	13″	3″	2 7-16″	12½″	9″	1⅞″
2″ x 16″	17″	3″	2 7-16″	16½″	9″	1⅞″
2″ x 20″	20⅞″	3″	2 7-16″	20⅜″	9″	1⅞″



Wall Radiators
X-Ray
Steam and Water

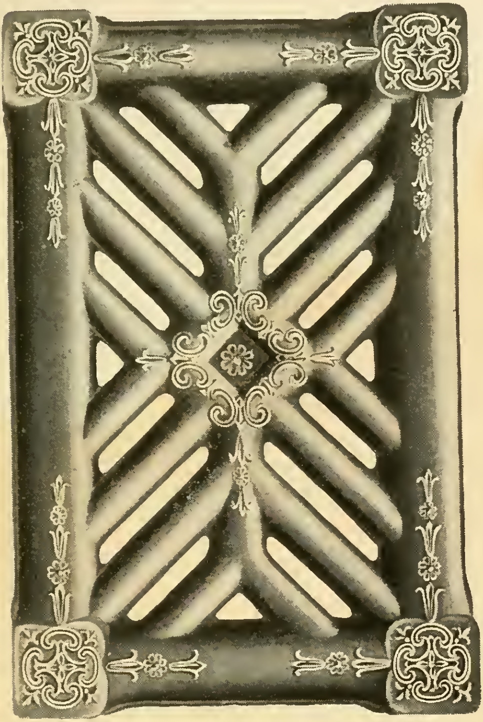
X-Ray Radiators



5 Foot

5 Square feet per section

X-Ray Radiators

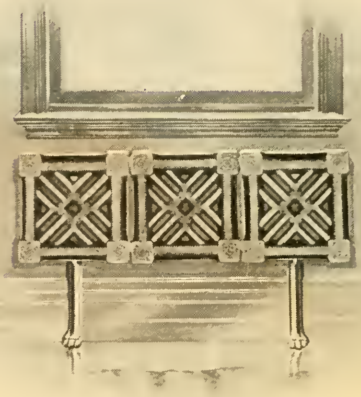


8 Foot

8 Square feet per section

See note bottom of pages 54 and 55

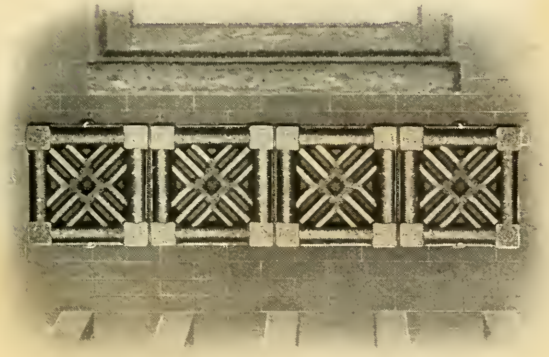
X-Ray Radiators



1 x 3 — 5 Foot. No. 1 Legs

1 section high
3 sections long
5 square feet per section
No. 1 legs or brackets

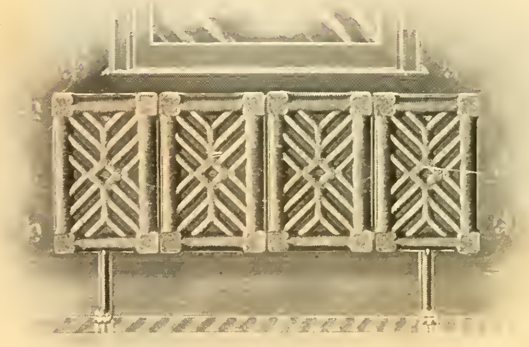
X-Ray Radiators



1 x 4 — 5 Foot. No. 3 Brackets

1 section high
4 sections long
5 square feet per section
No. 3 brackets

X-Ray Radiators

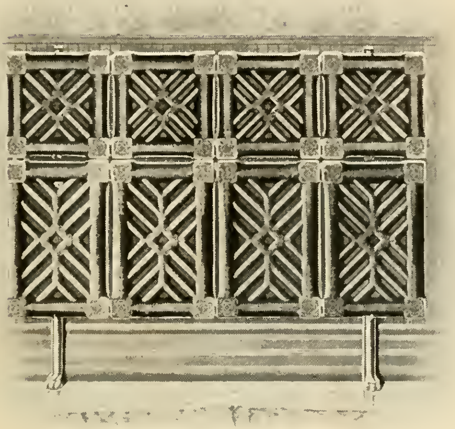


1 x 4 — 8 Foot. No. 1 Legs

1 section high
4 sections long
8 square feet per section
No. 1 legs or brackets

See note, bottom of pages 54 and 55

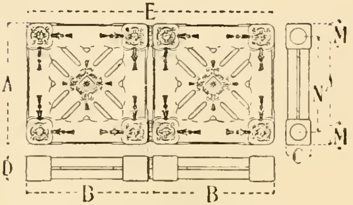
X-Ray Radiators



2 x 4 — 8 Foot — 5 Foot. No. 1 Legs
No. 3 Brackets

2 sections high (8′–5′)
4 sections long
8 square feet per section (bottom row)
5 square feet per section (top row)
No. 1 legs or brackets
No. 3 brackets

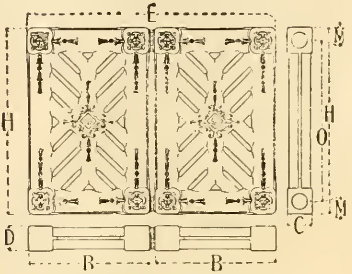
X-Ray Radiators



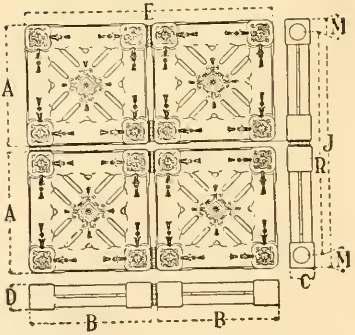
1 x 2—5 Foot

Dimensions

A—$14\frac{5}{16}$″
B—$14\frac{5}{16}$″
C—3¼″
D—3¼″
E—$29\frac{3}{8}$″
H—$21\frac{3}{4}$″
J—$29\frac{3}{8}$″
M—1½″
N—$11\frac{5}{16}$″
O—$18\frac{13}{16}$″
R—$26\frac{3}{8}$″

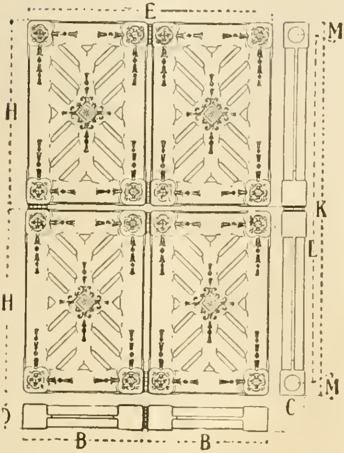


1 x 2—8 Foot

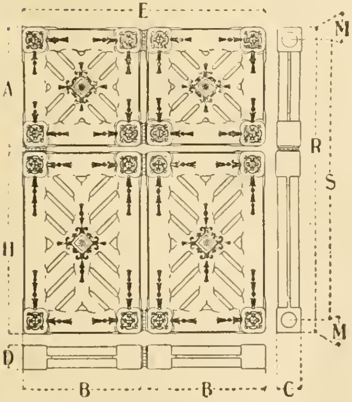


2 x 2—5 Foot

X-Ray Radiators



2 x 2 — 8 Foot



2 x 2 — 8 Foot — 5 Foot

Dimensions

A—$14\frac{5}{16}$″

B—$14\frac{5}{16}$″

C—$3\frac{1}{4}$″

D—$3\frac{1}{4}$″

E—$29\frac{3}{8}$″

H—$21\frac{3}{4}$″

K—$44\frac{1}{4}$″

L—$41\frac{1}{4}$″

M—$1\frac{1}{2}$″

R—$36\frac{13}{16}$″

S—$33\frac{13}{16}$″

X-Ray Radiators

5 Square Feet per Section

Number of Sections			Square Feet per Section	Square Feet per Radiator	Height		Length	
Height		Length			Feet	Inches	Feet	Inches
1	x	1	5	5	1	2 5-16	1	2 5-16
1	x	2	5	10			2	5 ⅜
1	x	3	5	15			3	8 7-16
1	x	4	5	20			4	11 ½
1	x	5	5	25			6	2 9-16
1	x	6	5	30			7	5 ⅝
1	x	7	5	35			8	8 11-16
1	x	8	5	40			9	11 ¾
2	x	1	5	10	2	5⅜	1	2 5-16
2	x	2	5	20			2	5 ⅜
2	x	3	5	30			3	8 7-16
2	x	4	5	40			4	11 ½
2	x	5	5	50			6	2 9-16
2	x	6	5	60			7	5 ⅝
2	x	7	5	70			8	8 11-16
2	x	8	5	80			9	11 ¾
3	x	1	5	15	3	8 7-16	1	2 5-16
3	x	2	5	30			2	5 ⅜
3	x	3	5	45			3	8 7-16
3	x	4	5	60			4	11 ½
3	x	5	5	75			6	2 9-16
3	x	6	5	90			7	5 ⅝
3	x	7	5	105			8	8 11-16
3	x	8	5	120			9	11 ¾
4	x	1	5	30	4	11½	1	2 5-16
4	x	2	5	40			2	5 ⅜
4	x	3	5	60			3	8 7-16
4	x	4	5	80			4	11 ½
4	x	5	5	100			6	2 9-16
4	x	6	5	120			7	5 ⅝
4	x	7	5	140			8	8 11-16
4	x	8	5	160			9	11 ¾

X-Ray Radiators

5 Square Feet per Section

Number of Sections			Square Feet per Section	Square Feet per Radiator	Height			Length		
Height		Length			Feet		Inches	Feet		Inches
5	x	1	5	25	6	—	2 9-16	1	—	2 5-16
5	x	2	5	50				2	—	5 ⅜
5	x	3	5	75				3	—	8 7-16
5	x	4	5	100				4	—	11 ½
5	x	5	5	125				6	—	2 9-16
5	x	6	5	150				7	—	5 ⅝
5	x	7	5	175				8	—	8 11-16
5	x	8	5	200				9	—	11 ¾
6	x	1	5	30	7	—	5⅝	1	—	2 5-16
6	x	2	5	60				2	—	5 ⅜
6	x	3	5	90				3	—	8 7-16
6	x	4	5	120				4	—	11 ½
6	x	5	5	150				6	—	2 9-16
6	x	6	5	180				7	—	5 ⅝
6	x	7	5	210				8	—	8 11-16
6	x	8	5	240				9	—	11 ¾
7	x	1	5	35	8	—	8 11-16	1	—	2 5-16
7	x	2	5	70				2	—	5 ⅜
7	x	3	5	105				3	—	8 7-16
7	x	4	5	140				4	—	11 ½
7	x	5	5	175				6	—	2 9-16
7	x	6	5	210				7	—	5 ⅝
7	x	7	5	245				8	—	8 11-16
7	x	8	5	280				9	—	11 ¾
8	x	1	5	40	9	—	11¾	1	—	2 5-16
8	x	2	5	80				2	—	5 ⅜
8	x	3	5	120				3	—	8 7-16
8	x	4	5	160				4	—	11 ½
8	x	5	5	200				6	—	2 9-16
8	x	6	5	240				7	—	5 ⅝
8	x	7	5	280				8	—	8 11-16
8	x	8	5	320				9	—	11 ¾

X-Ray Radiators

8 Square Feet per Section

Number of Sections			Square Feet per Section	Square Feet per Radiator	Height		Length	
Height		Length			Feet	Inches	Feet	Inches
1	x	1	8	8	1	9¾	1	2 5-16
1	x	2	8	16			2	5 ⅜
1	x	3	8	24			3	8 7-16
1	x	4	8	32			4	11 ½
1	x	5	8	40			6	2 9-16
1	x	6	8	48			7	5 ⅝
1	x	7	8	56			8	8 11-16
1	x	8	8	64			9	11 ¾
2	x	1	8	16	3	8¼	1	2 5-16
2	x	2	8	32			2	5 ⅜
2	x	3	8	48			3	8 7-16
2	x	4	8	64			4	11 ½
2	x	5	8	80			6	2 9-16
2	x	6	8	96			7	5 ⅝
2	x	7	8	112			8	8 11-16
2	x	8	8	128			9	11 ¾
3	x	1	8	24	5	6¾	1	2 5-16
3	x	2	8	48			2	5 ⅜
3	x	3	8	72			3	8 7-16
3	x	4	8	96			4	11 ½
3	x	5	8	120			6	2 9-16
3	x	6	8	144			7	5 ⅝
3	x	7	8	168			8	8 11-16
3	x	8	8	192			9	11 ¾
4	x	1	8	32	7	5¼	1	2 5-16
4	x	2	8	64			2	5 ⅜
4	x	3	8	96			3	8 7-16
4	x	4	8	128			4	11 ½
4	x	5	8	160			6	2 9-16
4	x	6	8	192			7	5 ⅝
4	x	7	8	224			8	8 11-16
4	x	8	8	256			9	11 ¾

8-FOOT SECTIONS longer than one section ARE NOT tapped to be used HORIZONTALLY.

X-Ray Radiators

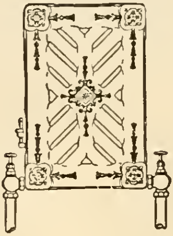
8 Square Feet per Section

Number of Sections			Square Feet per Section	Square Feet per Radiator	Height		Length	
Height		Length			Feet	Inches	Feet	Inches
5	x	1	8	**40**	9	3¾	1	2 5-16
5	x	2	8	**80**			2	5 ⅜
5	x	3	8	**120**			3	8 7-16
5	x	4	8	**160**			4	11 ½
5	x	5	8	**200**			6	2 9-16
5	x	6	8	**240**			7	5 ⅝
5	x	7	8	**280**			8	8 11-16
5	x	8	8	**320**			9	11 ¾
6	x	1	8	**48**	11	2¼	1	2 5-16
6	x	2	8	**96**			2	5 ⅜
6	x	3	8	**144**			3	8 7-16
6	x	4	8	**192**			4	11 ½
6	x	5	8	**240**			6	2 9-16
6	x	6	8	**288**			7	5 ⅝
6	x	7	8	**336**			8	8 11-16
6	x	8	8	**384**			9	11 ¾
7	x	1	8	**56**	13	¾	1	2 5-16
7	x	2	8	**112**			2	5 ⅜
7	x	3	8	**168**			3	8 7-16
7	x	4	8	**224**			4	11 ½
7	x	5	8	**280**			6	2 9-16
7	x	6	8	**336**			7	5 ⅝
7	x	7	8	**392**			8	8 11-16
7	x	8	8	**448**			9	11 ¾
8	x	1	8	**64**	14	11¼	1	2 5-16
8	x	2	8	**128**			2	5 ⅜
8	x	3	8	**192**			3	8 7-16
8	x	4	8	**256**			4	11 ½
8	x	5	8	**320**			6	2 9-16
8	x	6	8	**384**			7	5 ⅝
8	x	7	8	**448**			8	8 11-16
8	x	8	8	**512**			9	11 ¾

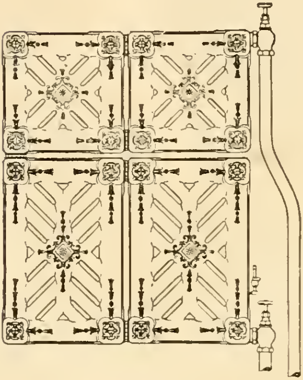
8-FOOT SECTIONS longer than one section ARE NOT tapped to be used HORIZONTALLY.

X-Ray Radiators

Steam



One Section High



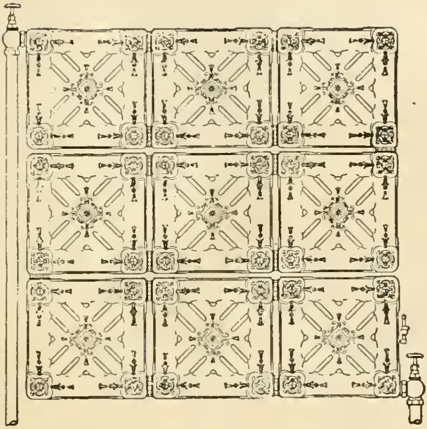
Two, Four, Six or Eight Sections High

Regular
Tapping for STEAM Radiators

Two-Pipe Work

X-Ray Radiators

Steam



Three, Five or Seven Sections High

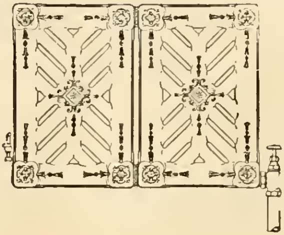
Regular

Tapping for STEAM Radiators

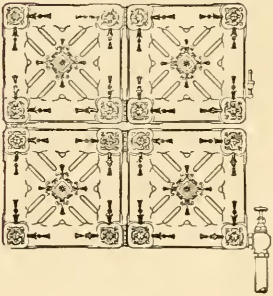
Two-Pipe Work

X-Ray Radiators

Steam



One Section High



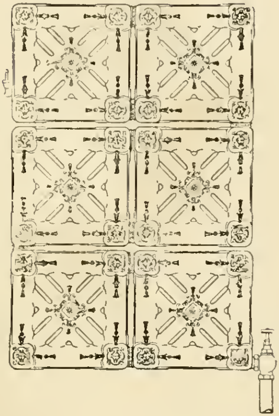
Two, Four, Six or Eight Sections High

Regular
Tapping for STEAM Radiators

One-Pipe Work

X-Ray Radiators

Steam



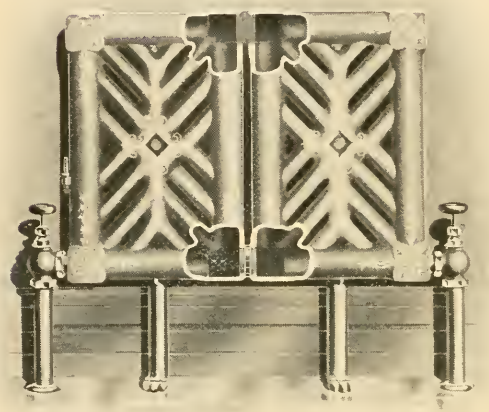
Three, Five, or Seven Sections High

Regular
Tapping for STEAM Radiators

One-Pipe Work

X-Ray Radiators

Steam Only



1 x 2 — 8 Foot

STEAM RADIATORS of more than one section in length CANNOT be used for WATER WARMING.

X-Ray Steam Radiators

Regular Tappings

Two-Pipe Work

See Pages 56 and 57.

All radiators of 50 square feet and smaller, 1 inch x ¾ inch R. H.

All radiators larger than 50 square feet and smaller than 120 square feet, 1¼ inch x 1 inch R. H.

All radiators of 120 square feet and larger, 1½ inch x 1¼ inch R. H.

Air valve, ⅛ inch R. H.

One-Pipe Work

See Pages 58 and 59.

All radiators of 30 square feet and smaller, 1 inch R. H.

All radiators larger than 30 square feet and smaller than 60 square feet, 1¼ inch R. H.

All radiators of 60 square feet and smaller than 120 square feet, 1½ inch R. H.

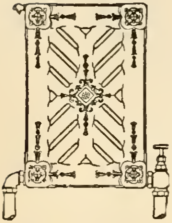
All radiators of 120 square feet and larger, 2 inch R. H.

Air valve, ⅛ inch R. H.

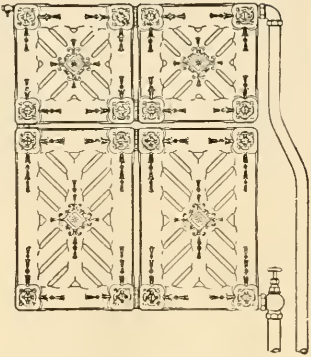
Radiators will be tapped for TWO-PIPE WORK unless otherwise specified.

STEAM RADIATORS of more than one section in length CANNOT be used for WATER WARMING. (See page 60.)

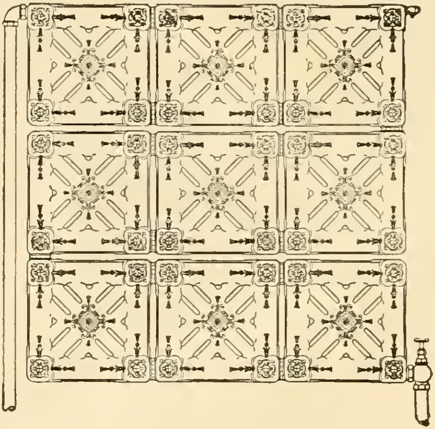
X-Ray Radiators



One Section High



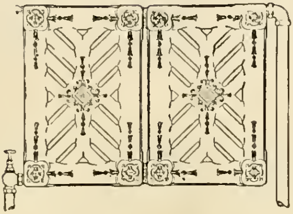
Two, Four, Six or Eight Sections High



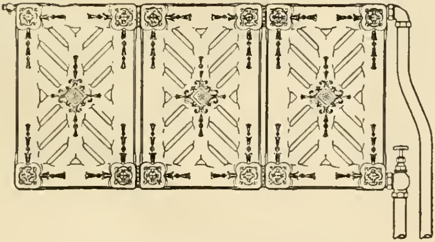
Three, Five, or Seven Sections High

Regular Tapping for WATER Radiators

X-Ray Radiators



One Section High
Tapped Top and Bottom, Opposite Ends

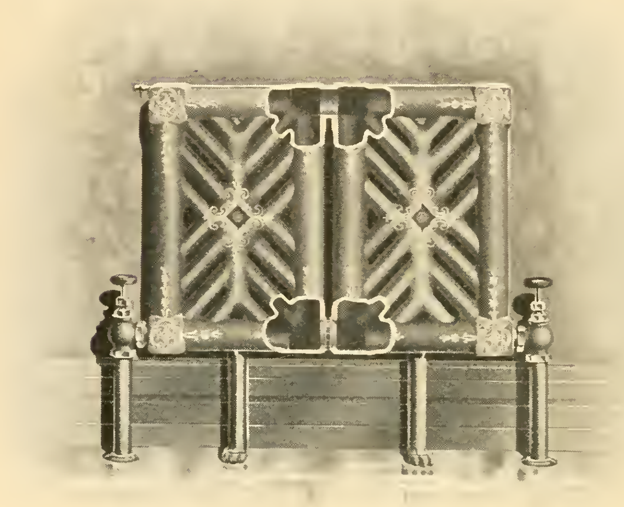


One Section High
Tapped Top and Bottom, Same End

Special
Tapping for WATER Radiators

X-Ray Radiators

Water Only



1 x 2 — 8 Foot

WATER RADIATORS of more than one section in length SHOULD NOT be used for STEAM WARMING.

X-Ray Water Radiator

Regular Tappings

See pages 62 and 63

All radiators of 50 square feet and smaller, 1 inch x 1 inch R. H.

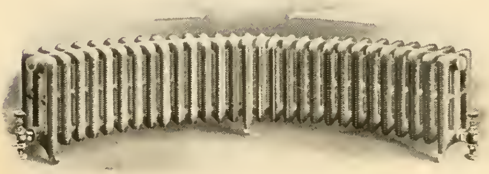
All radiators larger than 50 square feet and smaller than 120 square feet, 1¼ inch x 1¼ inch R. H.

All radiators of 120 square feet and larger, 1½ inch x 1½ inch R. H.

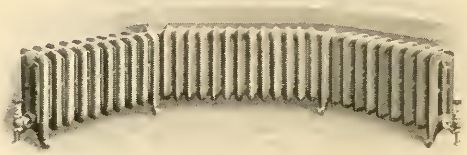
Air valve, ⅛ inch R. H.

WATER RADIATORS of more than one section in length SHOULD NOT be used for STEAM WARMING. (See page 64.)

Curved Radiator

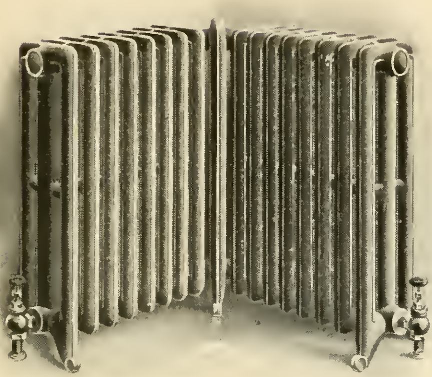


Bay Window Radiator



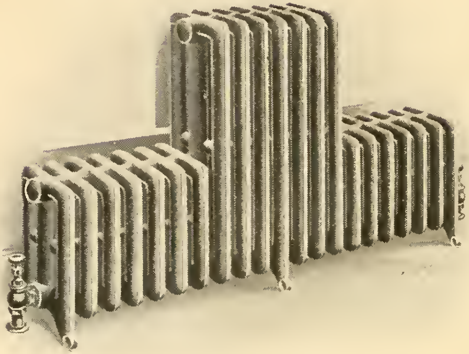
Not carried in stock

Corner Radiator



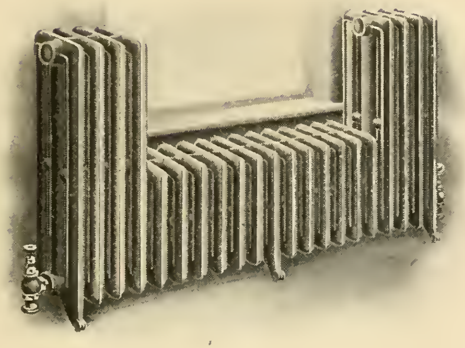
Not carried in stock

Window Radiator



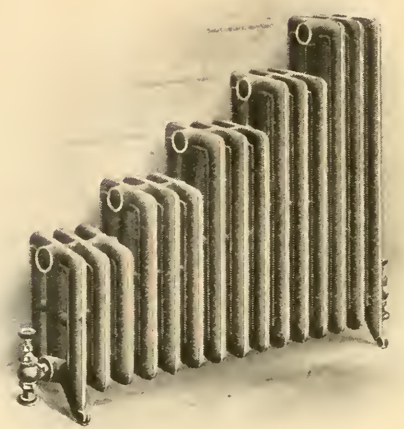
Not carried in stock

Window Radiator



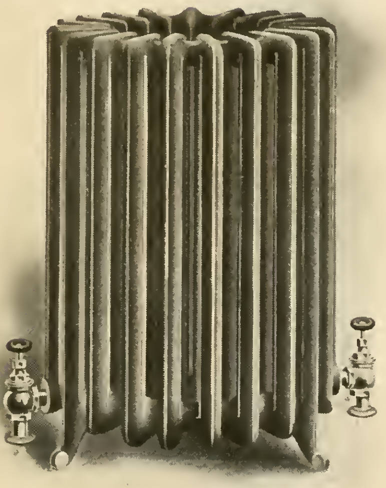
Not carried in stock

Stairway Radiator



Not carried in stock

Circular Radiator

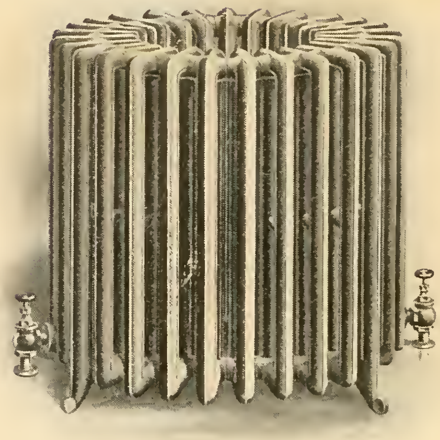


Two Column Circular Radiator

See page 74

Not carried in stock

Circular Radiator

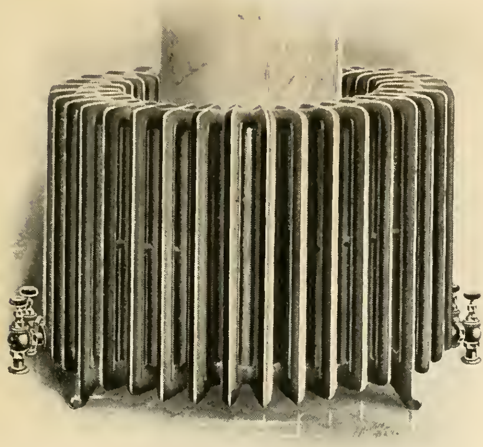


Three Column Circular Radiator

See page 74

Not carried in stock

Circular Radiator



Three Column Circular Radiator

In Halves (Two Radiators) to Encircle Column

See page 74

Not carried in stock

Circular Radiators

No. of Sections	Imperial Union		Princess Union		Coronet and Diadem	
	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter	Outside Diameter	Inside Diameter
9	24½ inches	4½ inches	23¼ inches	3¼ inches	18¾ inches	6¼ inches
12	27 "	7 "	25 "	5 "	20¾ "	8¼ "
15	29 "	9 "	27 "	7 "	22¾ "	10¼ "
18	30½ "	10½ "	28¾ "	8 "	24¾ "	12¼ "
20	32¾ "	12¾ "	30 "	10 "	25¾ "	13¼ "
24	35¼ "	15¼ "	32 "	12 "	28 "	15½ "
30	40¼ "	20¼ "	36 "	16 "	32¾ "	20¼ "
36	44¼ "	24¼ "	39¾ "	19¾ "	35¼ "	22¾ "
40	47½ "	27½ "	43 "	23 "	39¼ "	26¾ "
45	51¼ "	31¼ "	45 "	25 "	43¼ "	30¾ "
Radiating Surface	Page 10				Page 28	

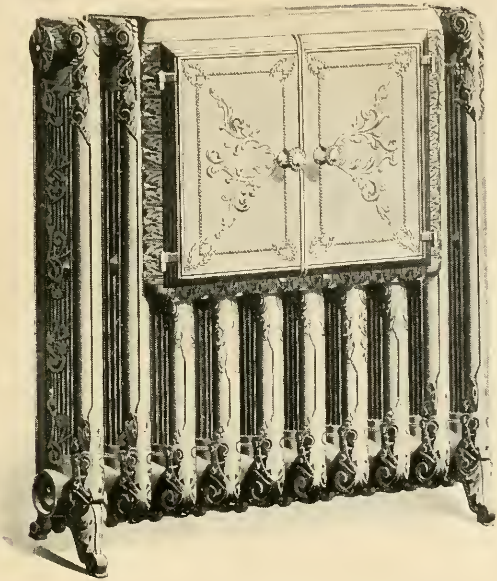
Imperial Union

Dining Room Radiator

Steam or Water

OVEN (inside)

Width 18¼ inches. Height 17 inches. Depth 11 inches.

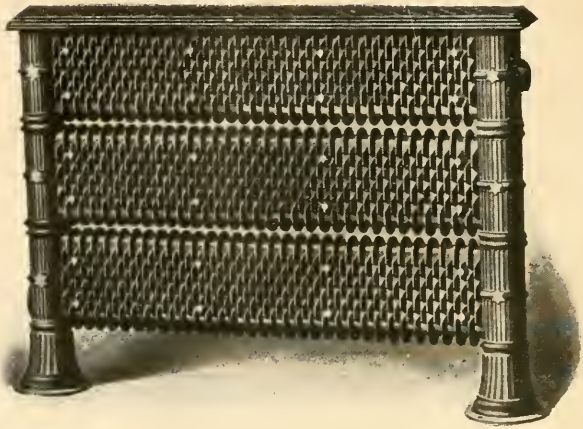


List of Sizes

Number		1	2	3	4	5	6	7	8
Radiating Surface	37″ High	34′	47′	60′	73′	86′	99′	112′	125′
	45″ High	37′	53′	69′	85′	101′	117′	133′	149′
Length in inches		26″	32½″	39″	45½″	52″	58½″	65″	71½″

Total Width 12⅜ inches. Not carried in stock.

Whittier Radiator



Steam or Water

Not carried in stock

We can also furnish old style Whittier Radiators with Hub Valves. Extra charge will be made for Hub Valves.

Whittier Radiators

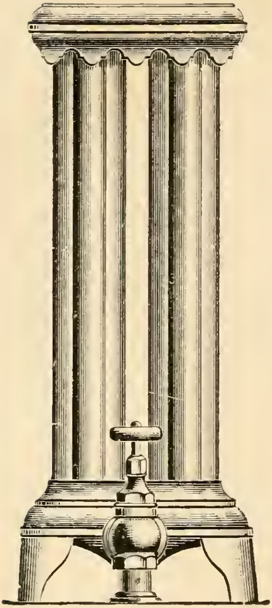
		Radiating Surface							
No. of Bars High	* Height of Radiator	**1 1-2 Foot Bar** Total Length 1′-9″	**2 Foot Bar** Total Length 2′-2½″	**2 1-2 Foot Bar** Total Length 2′-9″	**3 Foot Bar** Total Length 3′-2½″	**3 1-2 Foot Bar** Total Length 3′-9″	**4 Foot Bar** Total Length 4′-2½″	**5 Foot Bar** Total Length 5′-2½″	**6 Foot Bar** Total Length 6′-2½″
1	14 inches	6½ feet	8½ feet	10½ feet	12½ feet	14½ feet	17 feet	21 feet	25 feet
2	22¼ "	13 "	17 "	21 "	25 "	29 "	34 "	42 "	50 "
3	30¼ "	19½ "	25½ "	31½ "	37½ "	43½ "	50 "	63 "	75 "
4	38½ "	26 "	34 "	42 "	50 "	58 "	67 "	84 "	100 "
5	46½ "	32½ "	42½ "	52½ "	62½ "	72½ "	84 "	105 "	125 "
6	54½ "	39 "	51 "	63 "	75 "	87 "	102 "	126 "	150 "

* REGULAR HEIGHT LEGS — 4¾ INCHES. SPECIAL HEIGHT LEGS — 2, 3, 7½, AND 11½ INCHES.

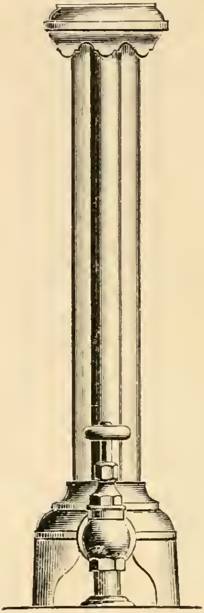
Unless otherwise Specified, all Radiators will be tapped for Steam. See page 11.

Reed Radiator

Steam Only



Double Row of Columns



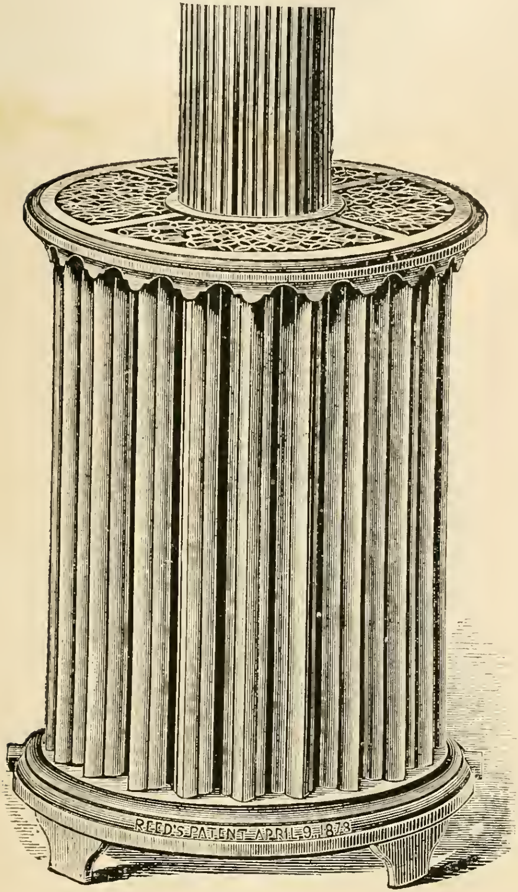
Single Row of Columns

List of Sizes, pages 80 and 81

Not carried in stock

Reed Circular Radiator

Steam Only



In Halves to Encircle Columns

List of Sizes, page 81

Not carried in stock

Reed Radiators

List of Sizes

Double Row of Columns

				Radiating Surface.				
Size	No. of Columns	Total Width Inches	Total Length Inches	44 Inches High	36 Inches High	30 Inches High	24 Inches High	20 Inches High
2 X 3	6	12	11	15	12	9	7½	6
2 " 4	8	12	13	20	16	12	10	8
2 " 5	10	12	15½	25	20	15	12½	10
2 " 6	12	12	17¾	30	24	18	15	12
2 " 7	14	12	20	35	28	21	17½	14
2 " 8	16	12	22	40	32	24	20	16
2 " 9	18	12	24¼	45	36	27	22½	18
2 " 10	20	12	26½	50	40	30	25	20
2 " 11	22	12	28	55	44	33	27½	22
2 " 12	24	12	31¼	60	48	36	30	24
2 " 13	26	12	33½	65	52	39	32½	26
2 " 14	28	12	35½	70	56	42	35	28
2 " 15	30	12	37¾	75	60	45	37½	30
2 " 16	32	12	40	80	64	48	40	32
2 " 17	34	12	42	85	68	51	42½	34
2 " 18	36	12	44¼	90	72	54	45	36
2 " 20	40	12	49	100	80	60	50	40
2 " 22	44	12	53	110	88	66	55	44
2 " 25	50	12	59¾	125	100	75	62½	50
2 " 28	56	12	66½	140	112	84	70	56
2 " 31	62	12	73¼	155	124	93	77½	62

For Steam Only

Reed Radiators

List of Sizes

Single Row of Columns

Size	No. of Columns	Total Width Inches	Total Length Inches	Radiating Surface			
				36 Inches High	30 Inches High	24 Inches High	20 Inches High
1 × 4	4	7½	12½	8	6	5	4
1 " 5	5	7½	14¾	10	7½	6¼	5
1 " 6	6	7½	17	12	9	7½	6
1 " 7	7	7½	19¼	14	10½	8¾	7
1 " 8	8	7½	21½	16	12	10	8
1 " 9	9	7½	23¾	18	13½	11¼	9
1 " 10	10	7½	26	20	15	12½	10
1 " 12	12	7½	30½	24	18	15	12
1 " 14	14	7½	35	28	21	17½	14
1 " 16	16	7½	39½	32	24	20	16
1 " 18	18	7½	44	36	27	22½	18
1 " 20	20	7½	48½	40	30	25	20
1 " 22	22	7½	53	44	33	27½	22
1 " 24	24	7½	57½	48	36	30	24

Reed Circular Radiators

List of Sizes

No. of Columns	Outside Diameter	RADIATING SURFACE 36 Inches High	RADIATING SURFACE 30 Inches High
24	21 inches	48	36
36	24 "	72	54
48	31 "	96	72
60	36 "	120	90
68	40 "	136	102

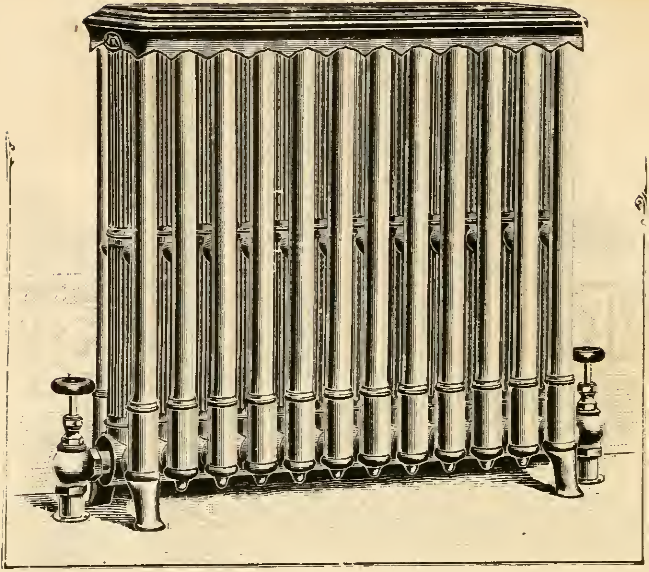
In Halves to Encircle Column

Specify Size of Column

No. of Columns	Size of Col's Encircled	Outside Diameter	RADIATING SURFACE 36 Inches High	RADIATING SURFACE 30 Inches High
48	11 ins. diam.	31 inches	96	72
60	16 " "	36 "	120	90
68	20 " "	40 "	136	102

Union Radiator

Plain Base



Steam or Water

List of Sizes, page 16

Not carried in stock

Regular Tapping

Distance from Floor to Center

Imperial Union

45" 37" 31" and 25" High.

2"	tapping	4⅝"
1½"	“	4½"
1¼"	“	4⅜"
1"	“	4¼"
¾"	“	4⅛"
½"	“	4"

19" High.

2"	tapping	4¾"
1½"	“	4⅝"
1¼"	“	4½"
1"	“	4⅜"
¾"	“	4¼"
½"	“	4⅛"

Princess Union

45" 37" 31" 25" and 19" High.

2"	tapping	4 11-16"
1½"	“	4 9-16"
1¼"	“	4 7-16"
1"	“	4 5-16"
¾"	“	4 3-16"
½"	“	4 1-16"

Union and Royal Union

37" 33" 29" 25" 21" & 17" High

2"	tapping	4"
1½"	“	3⅞"
1¼"	“	3¾"
1"	“	3⅝"
¾"	“	3½"
½"	“	3⅜"

Coronet and Diadem

45" 37" 31" 25" and 19" High.

2"	tapping	4 3-16"
1½"	“	4 1-16"
1¼"	“	3 15-16"
1"	“	3 13-16"
¾"	“	3 11-16"
½"	“	3 9-16"

Sovereign Union

All Heights and Sizes, 5 inches.

Scepter

All Heights and Sizes, 5 inches.

Radiators Tapped Top and Bottom Same End or Top and Bottom Opposite Ends

Approximate Distance from Floor to Center of Top Openings

Imperial Union		
45″	High	43 13-16″
37″	“	34 9-16″
31″	“	28 13-16″
25″	“	22 3-4″
19″	“	17 1-16″

Princess Union		
45″	High	42 13-16″
37″	“	34 3-4″
31″	“	28 15-16″
25″	“	22 7-8″
19″	“	16 15-16″

Coronet		
45″	High	42 3-8″
37″	“	34 1-8″
31″	“	28 1-8″
25″	“	22 1-4″
19″	“	16 5-16″

Diadem		
45″	High	42 1-4″
37″	“	33 15-16″
31″	“	28 1-8″
25″	“	22 1-4″
19″	“	16 1-4″

Union and Royal Union		
37″	High	35 1-4″
33″	“	31 1-4″
29″	“	27 1-4″
25″	“	23″
21″	“	19 1-4″
17″	“	15 5-16″

Sovereign Union		
37″	High	35 3-8″
31″	“	29 9-16″
25″	“	23 7-8″

NOTICE

If the Water Radiator is to be used for Steam Warming the Air Valve must be placed at the return end of the Radiator and near the bottom. Steam Radiators cannot be used for Water Warming.

Index

	PAGE
Bay Window	66
Circular	71 to 74
Corner	67
Coronet	22, 23
Champion Union	8, 9
Crown	26, 27
Curved	66
Detached Bases and Radiators	38 to 41
Diadem	24, 25
Dining Room	75
Direct — Indirect	34 to 36
Imperial Union	4, 5
Princess Union	6, 7
Reed	78 to 81
Royal Union	12, 13
Scepter	18, 19
Sovereign Union	30, 31
Stairway	70

Index

PAGE
Tappings (Regular) 11, 17, 21, 29, 33
Tappings (Floor to Center) 83, 84
Tappings (X-Ray) 56 to 65
Union 14, 15
Union (Plain Base) 82
Wall Boxes 42
Wall Radiators (X-Ray) 44 to 65
Whittier 76, 77
Window 68, 69
X-Ray 44 to 65

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DO NOT CIRCULATE